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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,514	02/21/2001		Yukihiro Abiko	826.1680/JDH	7937
21171	7590 10	0/05/2005	EXAMINER		INER
STAAS & HALSEY LLP				AZAD, ABUL K	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/788,514	ABIKO ET AL.			
Office Action Summary	Examiner	Art Unit			
	ABUL K. AZAD	2654			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  11 apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>26 Ju</u> This action is <b>FINAL</b> . 2b) ☐ This     Since this application is in condition for allowant closed in accordance with the practice under E.	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the output of the correction access and the correction of the output of the correction of the correction of the output of the correction	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) ite atent Application (PTO-152)			

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#### **DETAILED ACTION**

## Response to Amendment

- 1. This action is in response to the communication filed on July 26, 2005.
- 2. Claims 1-22 are pending in this action. Claims 1, 2, 4, 6, 9 and 16 have been amended.
- 3. The applicant's arguments with respect to claims 1-22 have been fully considered but they are not deemed to be persuasive. For examiner's response to the applicant's arguments or comments, see the detailed discussion in the Response to the Arguments section.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-6, 9-13 and 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Taniguchi et al. (US 6,484,137).

As per claim 1, Taniguchi teaches, "a data reproduction device for reproducing compressed multimedia data, including audio data", comprising:

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"an extraction unit extracting a frame, which is unit data of the audio data" (Fig. 14, element 101 "frame unpacking means");

"a speed conversion unit thinning out the frame of the audio data or repeatedly outputting the frame prior to decoding of the audio data or with the audio data compressed" (Fig. 14, element 12-1-2 and Fig. 26, element "decoded said information"); and

"a decoding unit decoding the frame of the audio data which has been speed converted by the speed conversion unit" (Fig. 26, element "decoded said information" and "audio output"); and

"a reproduction unit reproducing audible sound represented by the audio data" (Fig. 14, element 104).

As per claim 2, Taniguchi teaches, "a data reproduction device for reproducing compressed multimedia data, including audio data and also converting reproduction speed without decoding compressed audio data", comprising:

"an extraction unit extracting a frame, which is unit data of the audio data" (Fig. 14, element 101 "frame unpacking means");

"a setting unit setting the reproduction speed of the audio data" (Fig. 1, element 2, playback speed detector);

"a speed conversion unit thinning out the frame of the audio data or repeatedly outputting the frame prior to decoding of the audio data or with the audio data compressed" (Fig. 14, element 12-1-2 and Fig. 26, element "decoded said information"); and

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"a decoding unit decoding the frame of the audio data which has been speed converted by the speed conversion unit" (Fig. 26, element "decoded said information" and "audio output"); and

"a reproduction unit reproducing audible sound represented by the audio data" (Fig. 14, element 104).

As per claim 3, Taniguchi teaches, "wherein the audio data are MPEG audio data" (Fig. 14, element "MPEG Audio Bitstream").

As per claim 4, Taniguchi teaches, "a scale factor extraction unit extracting a scale factor included in the frame" (col. 25, lines 18-67);

"a calculation unit calculating the scale factor" (col. 25, lines 56-67); and 
"a control unit comparing a calculation result of the calculation unit with a 
prescribed threshold value and controlling not to transmit a corresponding frame to said 
decoding unit if the calculation result is smaller than the threshold value" (col. 26, lines 
1-21).

As per claim 5, Taniguchi teaches, "wherein said calculation unit calculates total of a plurality of scale factors included in the frame" (col. 25, lines 56-67).

As per claim 6, Taniguchi teaches, "a scale factor conversion unit generating a scale factor conversion coefficient for compensating for a discontinuous fluctuation of an acoustic pressure caused in a joint between frames, calculating the scale factor and scale factor conversion coefficient and inputting them as data to be decoded to said decoding unit if a plurality of scale factors included in the frame are reproduced by said reproduction unit" (col. 26, lines 22-45).

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As per claims 9-13 and 16-20, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 1-6.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 7-8, 14-15 and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taniguchi et al. (US 6,484,137) as applied to claims 2, 9 and 16 above, and further in view of Okada et al. (US 5,809,454).

As per claim 7 and 8, Taniguchi does not explicitly teach, "which receives multimedia data, including both video data and audio data", further comprising:

"a separation unit breaking down the multimedia data into both video data and audio data";

"a decoding unit decoding the video data"; and

"a video reproduction unit reproducing the video data";

"wherein each piece of the video data and audio data is structured as MPEG data".

However, Okada teaches, "which receives multimedia data, including both video data and audio data" (col. 5, lines 48-64), further comprising:

"a separation unit breaking down the multimedia data into both video data and audio data" (Fig. 1, element 13, DMUX):

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"a decoding unit decoding the video data" (Fig. 1, element 12, MPEG video decoder); and

"a video reproduction unit reproducing the video data" (Fig. 1, element 22, display).

Okada also teaches, "wherein each piece of the video data and audio data is structured as MPEG data" (col. 5, lines 48-63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to receive multimedia MPEG data including both video data and audio data and reproduced video data as teach by Okada in the invention of Taniguchi's MPEG audio reproduction device/method because Okada teaches his invention capable of reducing the time lag between the generation of voices and the movement of moving pictures, and video decoder to produce a naturalistic output (col. 3, lines 59-67).

Claims 14-15 and 21-22, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 7-8.

### Response to Arguments

8. Applicant argues, "In the continuation of item 11 of the May 20, 2005 Advisory
Action, the Examiner asserted that Fig. 14 of Taniguchi et al. disclosed "speed
conversion ... prior to decoding of the audio data or with the audio data compressed" as
recited in claim 1 at lines 4-5. However, as discussed in the April 26, 2005 Request for
Reconsideration, in Fig. 14 of Taniguchi et al., the first operation performed on the
MPEG audio bitstream is by frame unpacking means 101 which is described at column

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11, lines 25-33 and column 25, lines 18-23 as separating a frame into its component parts. The May 20, 2005 Advisory Action failed to rebut the Applicants' position that the unpacking operation includes decompressing the data, since the output of frame unpacking means 101 is requantized by requantization means 102. The expansion/compression frequency control means corresponding to reference numeral 12-1-2 in the Fig. 14 does not operate on a frame of audio, but rather receives as input "speed rate information." Although not clear from the description of Fig. 14, the configuration of the eighth embodiment illustrated in Fig. 14 is in principal the same as that of the first embodiment illustrated in Fig. 1. As described at column 11, lines 18-24, the first embodiment is "an example of an audio reproducing apparatus which performs time-scale modification process to intermediate data of an MPEG 1 audio bit space stream being decoded" (column 11, lines 18-21, emphasis added). Therefore, it is submitted that Taniguchi et al. does not teach or suggest "speed conversion ... prior to decoding of the audio data or with the audio data compressed" (claim 1, lines 4-5)".

The examiner disagrees with the applicant's above assertion because

Taniguchi's Figure 14, teaches as stated by examiner in previous office action. The

applicant has misinterpreted Taniguchi's reference. Here, at Figure 26, of Taniguchi

shows a standard MPEG 1audio layer I-II coding and decoding system, which is applied
in the eight to eleventh embodiments. The applicant also describe same MPEG1 coding
and decoding system in the background of the invention section. As applicant mention
in the argument section that frame unpacking means 101 at column 25, lines 18-23,
showing in figure 14. However, this frame unpacking does include operation of frame

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unpacking or demultiplexing as stating at col. 25, lines 18-23, "audio layer 2 bit stream, respective information such as the header, the bit allocation information, and sample data information, are separated by the frame unpacking means 101", as known by standard MPEG1, but does not any way include decompressing the audio data. The Taniguchi misspelled the term "dequantization" as "requantization" in the Figures, because an ordinary skill in the MPEG1 coding decoding would know that. It is not clear to the examiner, "As described at column 11, lines 18-24, the first embodiment is "an example of an audio reproducing apparatus which performs time-scale modification process to intermediate data of an MPEG 1 audio bit space stream being decoded" (column 11, lines 18- 21, emphasis added)" because of this statement how the applicant concludes that Taniguchi et al. does not teach or suggest "speed conversion ... prior to decoding of the audio data or with the audio data compressed" (claim 1, lines 4-5)".

#### Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Abul K. Azad** whose telephone number is **(571) 272-7599.** If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richemond Dorvil**, can be reached at **(571) 272-7602.** 

Any response to this action should be mailed to:

**Commissioner for Patents** 

P.O. Box 1450

Alexandria, VA 22313-1450

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Or faxed to: (571) 273-8300.

Hand-delivered responses should be brought to **401 Dulany Street**, **Alexandria**, **VA-22314** (Customer Service Window).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 27, 2005

Abul K. Azad Primary Examiner Art Unit 2654